H07RN-F ECA

Rubber cables

Flexible single and multicore power cables, rubber insulated, under heavy polychloroprene sheath or other equivalent elastomer sheath.

TECHNICAL DATA

Nominal tension	450/750 V
Conditions of employment	Use in industrial and agricultural workshops, building sites, for heavy duty applications and supplying industrial and agricultural machines and appliances where cables are subject to medium mechanical stresses (e.g. heating plates, inspection lamps, electric tools such as drills, circular saws, and domestic electric tools) use in dry, humid or moist rooms; fixed installations e.g. on rough-cast in temporary buildings and huts for accommodation purposes.
Type of electrical conductor	Flexible red copper
Type of insulation	EI4 (EN 50363-1)
Type of outer sheath	EM2 (EN 50363-2-1)
Color of the outer sheath	Black
Operating temperature	-25° C | +60° C
Short circuit temperature	+200° C on the conductor (5 sec. max)
Test voltage	2500 V
Cable marking	ELETTRO BRESCIA IEMMEQU <HAR> H07RN-F ECA
Minimum radius of curvature	If the outer diameter of the cable is between 8 and 12 mm: 4 times the max. outer diameter in case of non-constrained motion, and 3 times in case of fixed installation. If the outer diameter is greater than 12 mm: 5 times the max. outer diameter in case of non- constrained motion and 4 times in case of fixed installation.
Notes	For single core cables with section above 35 mm² and multicore cables with section above 10 mm², the production is possible through a commercial partner with minimum batch sizes and delivery dates to be arranged.

REFERENCES STANDARDS

Main rule	EN 50525-2-21
Conductor	EN 60228; IEC 60228
Self-extinguishing	EN 60332-1-2; IEC 60332-1-2
Oil resistance	EN 60811-404; IEC 60811-404

DIMENSIONS

Nominal section	Wires max diameter	Conductor diameter	Insulation thickness	Insulation diameter ± 0,1	Minimum average external diameter	Medium min outer diameter	Medium max outer diameter	Elelectrical resistance 20°C	Approximate weight	CU Factor
(Nxmm2)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(?/km)	(kg/km)	(kg/km)
2x1,00	0,21	1,21	0,80	N/A	1,30	7,7	10,0	19,5000	115,00	19,2000
2x1,50	0,26	1,44	0,80	N/A	1,50	8,5	11,0	13,3000	140,00	28,8000
2x2,50	0,26	1,88	0,90	N/A	1,70	10,2	13,1	7,9800	200,00	48,0000
2x4,00	0,31	2,44	1,00	N/A	1,80	11,8	15,1	4,9500	275,00	76,8000
2x6,00	0,31	2,96	1,00	N/A	2,00	13,1	16,8	3,3000	365,00	115,2000
3G1,00	0,21	1,21	0,80	N/A	1,40	8,3	10,7	19,5000	135,00	28,8000
3G1,50	0,26	1,44	0,80	N/A	1,60	9,2	11,9	13,3000	170,00	43,2000
3G2,50	0,26	1,88	0,90	N/A	1,80	10,9	14,0	7,9800	240,00	72,0000
3G4,00	0,31	2,44	1,00	N/A	1,90	12,7	16,2	4,9500	335,00	115,2000
3G6,00	0,31	2,96	1,00	N/A	2,10	14,1	18,0	3,3000	445,00	172,8000
4G1,00	0,21	1,21	0,80	N/A	1,50	9,2	11,9	19,5000	165,00	38,4000
4G1,50	0,26	1,44	0,80	N/A	1,70	10,2	13,1	13,3000	205,00	57,6000
4G2,50	0,26	1,88	0,90	N/A	1,90	12,1	15,5	7,9800	290,00	96,0000
4G4,00	0,31	2,44	1,00	N/A	2,00	14,0	17,9	4,9500	420,00	153,6000
4G6,00	0,31	2,96	1,00	N/A	2,30	15,7	20,0	3,3000	565,00	230,4000
5G1,00	0,21	1,21	0,80	N/A	1,60	10,2	13,1	19,5000	205,00	48,0000
5G1,50	0,26	1,44	0,80	N/A	1,80	11,2	14,4	13,3000	255,00	72,0000
5G2,50	0,26	1,88	0,90	N/A	2,00	13,3	17,0	7,9800	360,00	120,0000
5G4,00	0,31	2,44	1,00	N/A	2,20	15,6	19,9	4,9500	520,00	192,0000
5G6,00	0,31	2,96	1,00	N/A	2,50	17,5	22,2	3,3000	695,00	288,0000

CORES IDENTIFICATION

Cores number	Insulation colour sequence
2	Blue-Brown
3	Yellow/Green-Blue-Brown
4	Yellow/Green-Blue-Brown-Black / Yellow/Green-Brown-Black-Grey
5	Yellow/Green-Blue-Brown-Black-Grey

Refer to the CEI EN 50565 standard series as a guide to the use of cables with nominal voltage not exceeding 450/750 V (U0/U) and to the CEI 20-92 standard as a guide for the handling and storage of wooden reels for cables electrical.

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